Preservation Doesn't Cost *****

It Pays!!

Preservation is about maintaining or preserving our built environment. It's as much about community & positive economics as it is about saving our architectural heritage.

Preservation is an Outstanding economic tool for rehabbing houses and buildings

Preservation is the strategic ingredient in the revitalization of historic neighborhoods and downtown's.

Preservation almost always costs less than new construction & keeps more money in your community than new construction.

Preservation Creates Jobs

The Federal Historic Rehab Tax Credit alone has created 1.8 million jobs since it was enacted in 1976 - including 58,000 in 2008, at an average cost of \$9,000 per job compared to \$248,000 cost per job created by the recent stimulus bill.

Preservation jobs are the Ultimate Green Jobs, jobs that help make our existing buildings more energy efficient and contribute to more sustainable communities

Preservation takes advantage of existing infrastructure like streets, sewers etc.

Preservation increases property values.

Preservation increases a community's property tax base.

Preservation brings new businesses & people to communities

Preservation has been at the forefront of the "green movement" for 50 years

REHABILITATION VS NEW CONSTRUCTION

Rehabilitation keeps more money in the community than new construction.

The U.S. Department of Commerce tracts the impact of production within a given industry three ways:

1) The number of jobs that are created.

2) Increase in local household income.

3) Impact on other Industries.

The growing statistics in state-after-state, show that rehabilitation of existing structures outperforms new construction in all three of these measurements.

If you take a \$1,000,000 renovation of a historic building and compare that investment to a \$1,000,000 new construction project what would the differences in economic impact be?

\$120,000 more dollars will initially stay in the community with rehab than with new construction

Five to nine more construction jobs will be created with rehab than with new construction

4.7 more new jobs will be created elsewhere in the community with rehab than with new construction

Household incomes in the community will increase \$107,000 more with rehab than with new construction

Retail sales in the community will increase \$142,000 with the \$1,000,000 in rehab

\$34,000 more than with the \$1,000,000 in new construction

Realtors, bankers, personal service vendors as well as restaurants and drinking establishments will receive more direct monetary benefit from \$1,000,000 in rehab than from \$1,000,000 in new construction

Some of this information is from, "The Economics of Historic Preservation" by Donovan Ripkema

Let the Numbers Convince You: Do the Math

U. Value = A measure of air-to-air heat transmission (loss or gain) due to thermal conductance and the difference in Indoor and outdoor temperatures.



*Cost of 3' x 5' window, installed

**Assuming gas heat at \$1.09/therm

UP-Value = A measure of air-to-air heat transmission (loss or gain) due to thermal conductance and the difference in indice and outdoor temperatures.

Source: Keith Haberern P.E., R.A.
Collingswood Historic District Commission

SE SERVICE	WINDOW REPLACEM	MENT WORKSHEET	DATE
	ain Streat	USA	6-11
To es	The U-Factor of the o	existing window (See U-Value table be eplacement window (See U-Value tab windows being replaced (square feet). lost (\$/million Btu).	le below).
SAVI	NGS CALCULATIONS		
1.	Enter the U-Factor of the existi	ng windows	
2	Enter the U-Factor of the repla	cement windows	.55
3.	Subtract line 2 from line 1		-0.11
4.	Add 0.95 to lion 3		,75
5.		ows to be replaced	1-7/
8.		***************************************	i ed.
7.			
В.	Enter the heating plant efficien	cy (percent divided by 100)	99
9.	Divide line 7 by line 8	***********************************	1.69
10.	Enter the energy cost (\$/million	Blu)	4.63
YEAR	RLYSAVINGS		
11.	Multiply line 9 by line 10	***************************************	s 7.84 year
PRO.	IECT COST		
12.	Enter the total cost of the winds	ow replacement including material, lab	or and design \$ 1,60
SIMP	LE PAYBACK		
4.00	Divide the 12 by the 14		204 1195

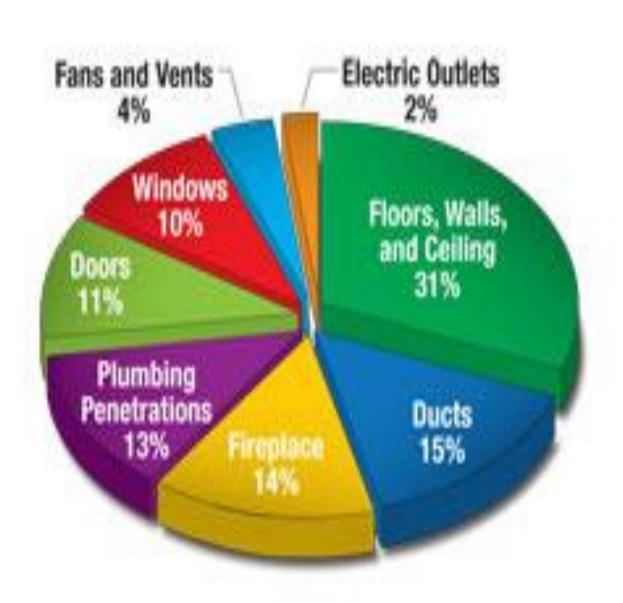
13.	Divide line 12 by line 11	.0% years				
WINDOW U-VALUE TABLE						
	Window System Type	U-Factor*				
	Single Glass	0.91 0.44 0.55 0.35 0.38 0.32				

Fig. 2. Many excellent worksheets are available for calculating payback of replacement windows; this one is produced by the Missouri Department of Natural Resources. Results of payback calculations often reveal grossly overstated claims. Courtesy of the Missouri Department of Natural Resources.

DNR/TAREQV 3.5 (5-98)

* U-Factor values adapted from the 1985 ASHRAE Fundamentals Handbook.

MO 780-1363 (5-98)



Energy Retrofit Case Study

Window restoration, \$350 each x 42	\$14,700
Insulation, weather stripping & plugging air infiltration	\$3750
Cost of Geothermal system after	
30% federal tax credit	\$29,400
Total energy retrofit costs	\$47,850
Original Gas & Electric annual cost	\$19,452
Current Gas & Electric annual cost	\$6,960
Gas & electric annual savings	\$12,492

Total years to payback energy retrofit investment 3.83